**AUTOMATIONFEASIBILITYREPORT**

CALCULATE TRIP COST PROJECT

|  |  |  |  |
| --- | --- | --- | --- |
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Table of Contents

[1. Automation Feasibility: 3](#_Toc71011507)

[2. Automation Feasibility Checklist (AFC): 3](#_Toc71011508)

[3. Essential Criteria: 3](#_Toc71011509)

[4. Optional Criteria: 3](#_Toc71011510)

[5. Benefits of Automation Feasibility Checklist: 4](#_Toc71011511)

[6. Automation feasibility checklist model: 4](#_Toc71011512)

[7. Automation feasibility for requirement – 1: 5](#_Toc71011513)

[8. Automation feasebility for requirement – 2: 6](#_Toc71011514)

[9. Automation vs manual testing: 7](#_Toc71011515)

# Automation Feasibility:

The first step in this process needs to be the feasibility analysis. Automation Feasibility analysis in automation testing refers to a checklist on basis of which we can decide that we should proceed with the automation of the test cases or not.

# Automation Feasibility Checklist (AFC):

Automation Feasibility Checklist is used to identify whether the manual test case is feasible for automation or not. The following are the criteria to determine the automation feasibility of the test cases:

# Essential Criteria:

* Dependencies/Pre-requisites
* Detailed Test steps
* Test Data availability
* Expected results
* Traceability

# Optional Criteria:

* Subject Matter Expert’s (SME) support
* Duplication of test steps
* Availability of multiple sets of data and Snapshot of AFC

# Benefits of Automation Feasibility Checklist:

* Reduces the Manual execution effort.
* Improves Automation efficiency.
* Helps to derive effective Multiple test cases.
* Control and avoid risks in Automation.

# Automation feasibility checklist model:

|  |  |  |
| --- | --- | --- |
| **S.NO** | **READINESS CHECK** | **(YES/NO)** |
| 1 | Product Stable? | YES |
| 2 | Any Planned enhancement in near future? | NO |
| 3 | Won't any bug fixes impact major functionalities? | YES |
| 4 | Are the test condition and precondition detailed? | YES |
| 5 | Test case and test data analysis done? | YES |

# Automation feasibility for requirement – 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Accessing the web URL (https://www.tripadvisor.in/) | 1 | YES | YES |
| 2 | Entering “Nairobi”  in search tab | 1 | YES | YES |
| 3 | Clicking on “Holiday Homes” option | 1 | YES | YES |
| 4 | Entering Check in date | 1 | YES | YES |
| 5 | Entering Check out date | 1 | YES | YES |
| 6 | Entering the number of Guests | 1 | YES | YES |
| 7 | Selecting “Elevator/Lift access” in Amenities | 1 | YES | YES |
| 8 | Selecting top rated hotels individually | 1 | YES | YES |
| 9 | Back to parent window | 1 | YES | YES |

# Automation feasebility for requirement – 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Clicking on “Cruises” | 1 | YES | YES |
| 2 | Selecting Cruise line from the list box. | 1 | YES | YES |
| 3 | Selecting Cruise ship from the list box. | 1 | YES | YES |
| 4 | Clicking on “Search” option. | 1 | YES | YES |
| 5 | Checking Languages in reviews | 1 | YES | YES |
| 6 | Checking Overview about Passengers, Crew and Launched date. | 1 | YES | YES |
| 7 | Back to Home Page. | 1 | YES | YES |
| 8 | Closing the Browser. | 1 | YES | YES |

# Automation vs manual testing:

|  |  |  |
| --- | --- | --- |
| **TEST PREFERENCES** | **TO AUTOMATE** | **NOT TO AUTOMATE** |
| Are the requirements stable? | YES | YES |
| Does detailed test cases with predictable results available? | YES | YES |
| Tedious and repetitive | YES | YES |
| Non-Repetitive or Ad-hoc tasks | NO | NO |
| High Regression rate and changing | YES | YES |
| Low Regression rate and constant | NO | NO |